

CZECHOSLOVAKIA

RASKA, Jr. K; JUROVCIK, M; FUCIK, V; TYKVA, R; SORMOVA, Z; SORM, F.

Institute of Organic Chemistry and Biochemistry,  
Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications,  
No 7, July 1966, pp 2809-2815

"Metabolic effects of 5-azacytidine in isolated nuclei  
of calf-thymus cells."

1  
CZECHOSLOVAKIA

JUROVSKY, M; RASKA, K. Jr; SOIC'OVÁ, Z; SOKL, F.

Institute of Organic Chemistry and Biochemistry of the  
Czechoslovak Academy of Sciences, Prague (for all)

Prague Collection of Czechoslovak Chemical Communications,  
No 10, 1965, pp 3370-3376

"Anabolic Transformation of a Novel Antimetabolite,  
5-Azacytidine and Evidence for Its Incorporation into  
Ribonucleic Acid."

TIMAKOV, S.; KIMASK. C.; KIRSPUU, V.; HIZNJAKOV, V.; SOKOLOV, A.;  
PAULMAN, V.; SOKOLOV, E., red.

[25 years of Soviet Estonia; a statistical abstract] 25  
aastat Nõukogude Eestit; statistiline kogumik. Tallinn,  
Eesti Raamat, 1965. 173 p. [In Estonian] (MIRA 18:12)

1. Estonian S.S.R. Statistika Keskvalitsus.

ROUMANIA / Human and Animal Physiology. General Prob- T  
lems.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 21828.

Author : Brauner, R., Sorn E., Demayo A.

Inst : Not given.

Title : The Role of the Hyaluronic Acid-Hyaluronidase  
System in Collagen Disease.

Orig Pub: Med. Interna., 1957, 9 No 3, 323-337.

Abstract: No abstract.

Card 1/1

SORNEV, YU. A.

USSR/ Engineering - Machine tools

Card 1/1 : Pub. 103 - 6/23

Authors : Soloshenko, V. P., and Sornev, YU. A.

Title : An automatic machine for a face-grinding of bearing races

Periodical : Stan. i instr. 8, 17-20, Aug 1954

Abstract : The editorial gives some information concerning the operation and performance of an automatic machine, type 02S34, designed for face-grinding of the inner races of cone roller-bearings. General description of the structure and individual characteristics of machine components are presented. Illustrations; diagram; drawings.

Institution : .....

Submitted : .....

SOROCEANU, D., ing.

Achievements in the field of surface constructions in the  
mining sector. Rev Min 15 no. 5/6;228-231 My-Je '64.

1. Chief Engineer, Institute of Mine Planning.

SOROCANU, D.

Sliding shuttering in mining industry constructions. Constr  
Buc 16 no.774:1,3 24.0 '64

J. Chief Engineer, Institute of Mine Planning, Bucharest.

Section 4.1

USSR/ Analytical Chemistry - General Questions

G-1

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11967

Author : Senyavin M.M., Sorochan A.M.  
Inst : Commission on Analytical Chemistry of the Academy of  
Sciences USSR  
Title : Determination of Free Acid in the Presence of Different  
Salts

Orig Pub : Tr. Komis. po analit. khimii AN SSSR, 1956, 7(10), 246-271

Abstract : On the basis of critical review of different methods for determining pH, it is shown that this quantity is not characteristic of the content of free acid in salt solutions, due to the dependence of the activity coefficient upon nature and concentration of salts present in the solution. The proposed and experimentally checked procedure of determining the free acid content on the basis of results of concurrent determination of pH and conductance (to evaluate the magnitude of activity coefficient) of the solution being

Card 1/3

Citric Acid Complexes of Ytterbium.

78-2-8/43

These complexes have the following stability constants:  
 $[YbOHCit] = 10^{-16}$ ,  $[Yb(OH)_3Cit] = 10^{-36}$  and  $[YbCit] = \text{about } 10^{-8}$ . From the course of the stability constant of the citric-acid complexes of ytterbium follows that different complexes of different composition simultaneously exist in a solution. There are 3 figures, 3 tables, and 19 references, 3 of which are Slavic.

SUBMITTED: April 11, 1957

AVAILABLE: Library of Congress

Card 2/2

L 16472-66 EWT(m)/ETC(f)/EWG(m)/EWP(t) IJP(c) DS/JD/JG/DH/RM  
ACC NR: AP6005530 (N) SOURCE CODE: UR/0089/66/020/001/0040/0046

AUTHOR: Nikashina, V. A.; Senyavin, M. M.; Sorochan, A. M.; Alekseyenko, V. A.

ORG: none

TITLE: Ion-exchange separation of uranium and rare earth elements

SOURCE: Atommaya energiya, v. 20, no. 1, 1966, 40-46

TOPIC TAGS: ion exchange chromatography, uranium, rare earth element, sorption

ABSTRACT: Sorption of uranium and rare earth elements from a mixture on KU-2 cation exchanger is calculated to determine the optimum conditions for ion-exchange separation of these elements. The calculations were based on solutions of hydrofluoric, hydrochloric, nitric, sulfuric and perchloric acids of various concentrations. Formulas are derived for determining the coefficients of distribution in the various systems on the basis of chromatographic separation by simple displacement and by the use of complex-forming reagents. The cases of cation sorption of positively and negatively charged complexes are considered. A comparison of theoretical and experimental data shows satisfactory agreement, and the proposed formulas are recom-

UDC: 543.544.6:546.791 + 546.65

Card 1/2

L 16472-66  
ACC NR: AP6005530

mended for predicting conditions of chromatographic separation of arbitrary ion mixtures. Orig. art. has: 1 figure, 3 tables, 2 formulas.

SUB CODE: 07/ SUBM DATE: 24Mar65/ ORIG REF: 008/ OTH REF: 013

Card 2/2 MC

Card 1/1  
ACC NR: AP6020202

SOURCE CODE: UR/0078/66/011/006/1410/1415

AUTHOR: Sorochan, A. M.; Senyavin, M. M.

ORG: none

TITLE: Stability constants of the citrate complexes of ytterbium and lanthanum

SOURCE: Zhurnal neorganicheskoy khimii, v. 11, no. 6, 1966, 1410-1415

TOPIC TAGS: rare earth metal, complex molecule, stability constant, lanthanum compound, ytterbium compound

ABSTRACT: Stability constants of the citrate complexes of ytterbium and lanthanum [Yb (La) citrate]<sup>3-</sup>, were determined by static, chromatographic, and potentiometric methods. In the chromatographic method, a solution of the rare earth element's chloride (pH=3) was passed over a cation-exchange resin KU-2 which was equilibrated with a complexing agent; the column was then washed with a solution containing the complexing agent. In the static method, the solutions containing chlorides of the rare earth elements were contacted with KU-2 cation exchange resin. Under the potentiometric method, the excess of the complexing agent in the solution was neutralized. All experiments were conducted at 20°C. In all experiments, citric acid served as a complexing agent. Excellent agreement was found among the stability constants determined by the three methods for the citrate complexes of ytterbium and lanthanum. Orig. art. has: 3 figures, 6 tables, 2 formulas.

SUB CODE: 07/11/11  
Card 1/1

SUBM DATE: 07Oct64/ ORIG REF: 008/ OTH REF: 005

UDC: 546.668:541.49+546.654:541.49

SOROCHAN, I.D.

Status and prospects for the development of therapeutic service in  
the Moldavian S.S.R. Zdravookhranenie 5 no.4:3-7 J1-Ag '62.  
(MIRA 15:9)

1. Zamestitel' ministra zdravookhraneniya Moldavskoy SSR.  
(MOLDAVIA--THERAPEUTICS)

SOROCHAN, I.D.

Results of the November Plenum of the Central Committee of the CPSU, the sixth Plenum of the Central Committee of the Moldavian Communist Party and tasks of the public health of the Republic. Zdravookhraneniye 6 no.1:3-7 J-F'63.  
(MIRA 16:8)

1. Zamestitel' ministra zdravookhraneniya Moldavskoy SSR.  
(MOLDAVIA--PUBLIC HEALTH)

KOZ'MIN, Filipp Kuz'mich; SMOLDYREV, A.Ye., red.; SOROCHAN, I.P., red.;  
ATTOPOVICH, M.K., tekhn.red.

[Installation and operation of crushing and brinding equipment in  
ore dressing plants] Montazh i eksploatatsiia drobil'no-  
razmol'nogo oborudovaniia obogatitel'nykh fabrik. Moskva, Gos.  
nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii,  
(MIRA 11:1)  
1957. 333 p. (Ore dressing) (Crushing machinery)

MOLOTKOV, L.P., dotsent, kand. tekhn. nauk; YUFITOV, V.M., dotsent, kand. tekhn. nauk; KURBANOV, M.P., inzh.; CHERESEVICH, Ye.M.; POLOTUNOV, Ye.M.; SOKOCHAN, N.G.; MADZHAR, P.I.

Ways of increasing the output of rolled products acceptable for their mechanical properties during the rolling of 16G, St.3M, and 15KhSND steel on universal mills. Stal' 24 no.9:824-827 S '64.  
(MIRA 17:10)

MOLOTKOV, L.F., kandidat tekhnicheskikh nauk, dotsent; YUFKOV, V.M.,  
kandidat tekhnicheskikh nauk, dotsent; TSUKANOV, G.E., inzhener;  
CHERNEVICH, Ye.M., inzhener; BORTUNOV, Ye.M., inzhener; SOROCHAN,  
N.G.

Improving the mechanical properties of structural steel for  
bridges. Stal' 15 no.10:930-937 0 '55. (MLRA 9:1)

1. Dnepredzerzhinskiy metallurgicheskiy institut i zavod  
imeni Dzerzhinskogo. (Steel, Structural)

SCROCHAN, N.G.

10  
4E2C

✓ Research Work at the Dzerzhinsky Works. M. P. Kuznetsov, G. N. Lebedev, I. G. Kulaychenko, T. A. Kramnik, B. I. Smirnov, V. I. Bantirzhanov, N. G. Scrochan and B. I. Polozov. [Sov. 1956, (8), 740-750]. [In Russian]. The central works laboratory has helped in the adoption of low-manganese pig iron production and utilization, developed a standard sinter-reducibility determination method, contributed to improved Bessemer steel and rolled strip quality and to fuel economy. —S. E.

PC Ray

MOLOTKOV, L.F.; YUFEROV, V.M.; KRYZHANOVSKIY, A.L.; SHAFRAN, I.K.;  
BOKTUNOV, Ye.M.; SOROCHAN, N.G.; MADZHAR, N.I.; VOROB'YEV, A.P.

Investigating pressures during the rolling of universal strips.  
Izv.vys.ucheb.zav., chern.met. 5 no.4:76-81 '62. (MIRA 15:5)

1. Dneprodzerzhinskiy metallurgicheskiy institut i Zavod im.  
F.E.Dzerzhinskogo.  
(Rolling (Metalwork)) (Pressure)

SOROCHAN, O.A.

GOLOVASHCHUK, S.I. [Holovashchuk, S.I.]; SOKOLOVSKIY, I.I. [Sokolova'kyi, I.I.]; BONDARCHUK, V.G. [Bondarchuk, V.H.], akademik, etv.red.; DYATKOVSKAYA, N.P. [Dziatkivs'ka, N.P.], red.-leksikograf; BABINETS, A.E. [Babynets', A.IE.], kand.geol.-mineral.nauk, red.; DYADCHENKO, M.G. [Diadchenko, M.H.], kand.geol.-mineral.nauk, red.; KAPTARENKO-CHMEROUSOVA, O.K., doktor geol.-mineral.nauk, red.; NOVIK, I.O., red.; PISKORS'KA, O.K., red.; SOROCHAN, O.A., red.; USENKO, I.S., kand.geol.-mineral.nauk, red.; SHUL'GA, P.L. [Shul'ha, P.L.], doktor teol.-mineral.nauk, red.; SHTUL'MAN, I.P., red.izd-va; BUNIY, R.O., tekhn.red.

[Russian-Ukrainian geological dictionary; 19000 words] Russko-ukrainskii geologicheskii slovar'. 19000 terminov. Sost.S.M. Golovashchuk i I.L.Sokolovskii. Kyiv, Izd-vo Akad.nauk USSR, 1959. 280 p.

1. Akademiya nauk USSR, Kiyev. 2. AN USSR (for Bondarchuk).  
3. Chlen-korrespondent AN USSR (for Novik).

(Geology--Dictionaries)  
(Ukrainian language--Dictionaries--Russian language)  
(Russian language--Dictionaries--Ukrainian language)

AYZENVERG, D.Ye. [Aizenverg, D.IE.]; BARANOVA, N.M.; VEKLICH, M.F.;  
GOLYAK, L.M. [Holiak, L.M.]; GORAK, S.V. [Horak, S.V.];  
DIDKOVSKIY, V.Ya. [Didkovs'kyi, V.IA.]; ZELINSKAYA, V.O.  
[Zelins'ka, V.O.]; ZERNETSKIY, B.F. [Zernets'kyi, B.F.];  
KAPTARENKO-CHERNOUSOVA, O.K.; KRAYEVA, Ye.Ya. [Kraieva, I.E.IA.];  
KRASHENINNIKOVA, O.V.; KUTSIBA, A.M.; LAPCHIK, T.Yu.; MAKARENKO,  
D.Ye.; MOLYAVKO, G.I. [Molievko, H.I.]; MULIKA, A.M.; PASTERNAK,  
S.I.; PERMYAKOV, V.V.; ROMODANOVA, A.P.; ROTMAN, R.N.; SLAVIN, V.I.;  
SOKOLOVSKIY, I.L.; SOROCHAN, O.A.; SYABRYAY, V.T.; TKACHENKO, T.O.;  
SHUL'GA, P.L. [Shul'ha, P.L.], doktor geol.-mineral.nauk; YAMNICHENKO,  
I.M. [Iamnychenko, I.M.]; BONDARCHUK, V.G. [Bondarchuk, V.H.], akade-  
mik, otv.red.

[Atlas of paleogeographical maps of the Ukrainian and Moldavian  
S.S.R. with lithofacies elements. Scale 1:2,500,000] Atlas paleo-  
geografichnykh kart Ukrains'koi i Moldavs'koi RSR z elementamy  
litofatsii. Masshtab 1:2,500,000. Sklaly D.IE. Aizenverg i dr.  
Za zahal'nym kerivnytstvom V.N.Bondarchuka. Kyiv, 1960. xvi p.,  
78 col.maps. (MIRA 13:12)

1. Akademiya nauk USSR, Kiyev. Institut geologicheskikh nauk.
2. Institut geologicheskikh nauk AN USSR (for all, except Bondarchuk, Pasternak, Slavin).
3. Instytut geologii korysnykh kopalyn AN URSR (for Pasternak).
4. Moskovskiy gosudarstvennyy universitet im. Lomonosova (for Slavin).

(Ukraine--Paleogeography--Maps) (Moldavia--Paleogeography--Maps)

SOROCHAN, O.O.

Peculiarities of monsoon circulation in eastern Asia. Trudy 000 no.70:  
(MIRA 10:11)  
92-109 '57.  
(Asia--Monsoons)

Sorochan, O. G.

36-71-14/16

AUTHOR: Sorochan, O. G.

TITLE: Reflections on the Nature of Summer Monsoons in Eastern Asia (Nekotoryye soobrazheniya o prirode letnego monsuna Vostochnoy Azii)

PERIODICAL: Trudy Glavnay geofizicheskoy observatorii 1957, Nr 71, pp. 184-209 (USSR)

ABSTRACT: A synoptic-climatological situation analogous to the stable air flows of the summer monsoon of Easter Asia is presented as a problem in monsoon climate and circulation. This complex air circulation pattern is of considerable scientific interest and has great practical significance for India and Eastern Asia where large amounts of rain during this time result in large crops. Air currents which change their direction seasonally due to the differential in warming-up of land and sea surfaces create corresponding baric fields. The author gives examples of monsoon formation in high-pressure areas over marginal seas and discusses the causes of ridges and valleys of pressure. Three trends are noticeable in the study of monsoons. One is based on climatological considerations, i.e. long-range

Card 1/3

Reflections on the Nature of Summer (Cont.) 36-71-14/16  
observations of temperature, air pressure, wind direction,  
precipitation, cloudiness and moisture; the second is synoptic  
and is based on formation of centers of atmospheric action and  
processes such as anticyclonic movements along standard axes,  
sequences of synoptic situations, etc. The third is the hydro-  
dynamic approach and consists of studying circulation and  
applying the equations of hydrodynamics to the analysis of  
monsoons. Complex study of this phenomenon leads to the fol-  
lowing conclusions: the summer monsoons of Eastern Asia rep-  
resent undivided streams in the general atmospheric circulation;  
they are created by the interaction of the orography of Eastern  
Asia and the thermal inhomogeneity of the underlying land and  
sea surfaces, frontal activity in tropical latitudes and the  
formation of a subtropic maximum. The complexity is greatly  
pronounced due to two contrasting media, the marginal seas and  
their littorals and the large areas of the Asiatic continent  
adjacent to the Pacific. Summer monsoons develop as a result  
of the destructive West-East transfer of cold air over the cor-  
responding parts of Eurasia, for the troposphere (0-3 km);  
there is another current higher up. In the second place a  
summer monsoon is possible for a troposphere 0-6 km. thick.

Card 2/3

Reflections on the Nature of Summer Monsoons (Cont.)

36-71-14/16

There is no difference in monsoons at tropical or temperate latitudes. They are interconnected and in one case under the influence of thermal factors and in the other under circulatory factors. There are 17 figures, 7 tables and 33 references of which 21 are USSR.

AVAILABLE: Library of Congress

Card 3/3

36-72-8/13

AUTHOR: Sorochan, O.G.TITLE: Summer Precipitation in the Monsoon Area of Eastern Asia  
(K voprosu o prirode letnikh osadkov mussonnoy oblasti  
Vostochnoy Azii)PERIODICAL: Trudy Glavnay geofizicheskoy observatorii, 1957, Nr 72, pp. 92-109  
(USSR)

ABSTRACT: Summer precipitation in the moderate latitudes of the monsoon area of Eastern Asia is closely related to cyclonic activity and is characterized by the two stages of the summer monsoon. During the first, precipitation originates from continental and marine polar masses (stationary from April to June over adjacent seas), and is triggered by low-humidity cyclones from the NW and W; during the second stage it originates from marine tropical and, to a lesser extent, from continental polar and continental tropical air masses and is started by cyclones from the SE, S, and SW, whose displacement towards the NW is related to the displacement of the Pacific maximum towards the W. The maritime air masses brought into the subtropic and moderate latitudes during the second stage have a high moisture content, since they arise and are formed over the warmer SW regions of the ocean.

Card 1/2

SRICHAT, O.G., Cand Geog Sci — (diss) "Certain ~~particularities~~  
of ~~xxx~~ atmospheric circulation in monsoon climate of the  
~~so-called~~ latitudes of East Asia." Len, 1956, 13 pp (Main  
Hydrometeorological Service under the  
Soviet of Ministers USSR. Main Geophysical Observatory  
im A.I. Voevodskogo) 140 copies (EL, 50-58, 121)

SOROCHAN, O.G.

Climatological features of summer monsoon in the Far East.  
Trudy GOO no.84:44-67 '58. (MIRA 12:4)  
(Soviet Far East--Monsoons)

SOROKHIN, O.G.

All-Union scientific meteorological conference dedicated to the  
fortieth anniversary of the hydrometeorological service of the  
Soviet Union. Izv. AN SSSR. Ser. geog. no.5:124-128 S-0 '61.  
(MIRA 14:9)  
(Meteorology--Congresses)

SOROCHAN, O.G.

Preliminary data on principal characteristics of moisture circulation  
over Eastern Siberia and the Far East. Trudy GGO no.111:15-23 '61.  
(MIRA 15:1)  
(Siberia, Eastern--Humidity) (Soviet Far East--Humidity)

DROZDOV, O.A.; SOROCHAN, O.G.

Brief survey of works on the characteristics of monsoons completed  
in Russia and the U.S.S.R. Trudy GGO no.111:49-63 '61.

(MIRA 15:1)

(Monsoons)

SOROCHAN, O.G.

Seasonal characteristics of moisture transfer in temperate latitudes  
of Asia during the period of winter monsoons. Trudy GOO no.111:  
64-70 '61. (MIRA 15:1)

(Asia--Humidity) (Monsoons)

SOROCHAN, O.G.

Effect of thermal factors on the development of summer monsoons  
in eastern Asia. Trudy GGO no.122:3-11 '61. (MIRA 14:8)  
(Asia--Monsoons)

SOROCHAN, I.G.

Analyzing the conditions of atmospheric circulation during the  
July 1958 flood in Transbaikalia. Trudy GGO no.123:79-92 '61.  
(MIRA 14:8)

(Transbaikalia--Floods)  
(Meteorology)

SOROCHAN, O.G.

Temperature conditions in Transcaucasia. Trudy GGO no.132:  
93-120 '62. (MIRA 15:8)  
(Transcaucasia--Atmospheric temperature)

SOROCHAN, O.G.; LUSMCHINSKAYA, M.I.

Conditions for the transfer and transformation of masses producing  
precipitations over the Asiatic part of the U.S.S.R. in the spring.  
Trudy GGO no.133:55-72 '62. (MIRA 16:2)  
(Russia, Asiatic—Precipitation (Meteorology))

SOROCHAN, O.G.

Characteristics of the transfer and transformation of raincausing  
air masses over the Asiatic part of the U.S.S.R. in the winter  
and summer seasons. Trudy GGO no.148;3-27 '63. (MIRA 16:6)  
(Precipitation (Meteorology))

SOROCHAN, G.

Analysis of the conditions of the forming of rain-causing air masses  
over the Asiatic part of the U.S.S.R. in the autumn. Trudy GGO  
no.148:28-37 '63. (MIRA 16:6)  
(Precipitation (Meteorology))

L 24487-65 EWT(1)/FCC GW

ACCESSION NR: AT5002952

19  
16  
B-1

8/2531/64/000/163/0033/0046

AUTHOR: Sorochan, O. G., Shevchenko, T. N., Kokutsa, S. I.

TITLE: Climatic characteristics of air masses in East Asia in the spring and autumn

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 163, 1964.  
Voprosy klimatografii (Problems in climatology), 33-46

TOPIC TAGS: atmospheric circulation, monsoon, cyclone, air mass, climatology

ABSTRACT: The authors define the principal types of air masses over East Asia and present data on the characteristics of the development of summer and winter monsoons. Until now, there has been no clear criterion for defining the sequence of the advance and retreat of the summer and winter monsoons, the limits of their penetration onto the continent or ocean and their rate of movement. The key criterion used in this study is the equivalent potential temperature ( $\theta'$ ), a rather stable characteristic of the properties of air masses. For the first time,  $\theta'$  was computed for the entire area (85-175°E, 30-70°N) using aerological data for a 3-year period (1957-1959) for the principal isobaric surfaces (1000, 850, 700 and 500 mb) from 58 stations. Results of a study of the advance and retreat of the summer monsoon during the periods April-May and September-October are shown in part in Fig. 1 of the Enclosure. It is shown that 9 types of air

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L 24487-65  
ACCESSION NR: AT5002952

masses predominate in spring and autumn over East Asia to the north of 25°N. The characteristics of these air masses, described in detail in the text, reveal the presence of seasonal peculiarities in each of the defined types. In spring, the air masses are dry and more stable than in autumn. In autumn, the influence of the air masses is 1.2-1.5 times greater than in spring. The real summer monsoon does not reach the temperate (continental) origin. In autumn, the air masses are formed mostly of air of westerly (adjacent seas. In autumn, the air masses are also manifested over the second half of September, the real summer monsoon is no longer observed over the temperate latitudes of East Asia. Orig. art. has: 2 figures and 4 tables.

ASSOCIATION: Glavnaya geofizicheskaya observatoriya, Leningrad (Main geophysical observatory)

SUBMITTED: 00

NO REF Sov: 003

SUB CODE: ES

ENCL: 01

OTHER: 002

Fig. 1.  
autumn.

Card 2/3

Card 3/3 APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420020

SOROCMAN, V. V. (ed.)

Characteristics of the properties of the air masses of East  
Asia during winter and summer. Trudy GGO no.182:16-37 '65.  
(MIRA 18:9)

Sorochan, R.I.

B-12

USSR/Physical Chemistry - Electrochemistry.

Abs Jour : Referat Zhur - Khimiya, No 6, 25 March 1957, 18692

Author : Fridman Ya.L. and Sorochan R.I.  
Title : On Oxidation and Reduction Potentials of Sulphurous and  
Oxygen Compounds of Antimony in Alkaline Solutions.

Orig Pub : Tr. In-ta chimii, AN KirgSSR, 1956, vyp. 7, 29-38

Abstract : Potentials (E) of Sb-electrode were measured in sulphido-alkaline solutions at different content of  $Na_3SbS_3 \cdot 9H_2O$ ,  $Na_2S \cdot 9H_2O$  and  $NaOH$ , and  $27^\circ$ ,  $40^\circ$  and  $80^\circ$  in air and  $N_2$ . It is established that the system  $SbS_3^{3-} + 3e = Sb + N_2$ .

3S<sup>2-</sup> does not determine a potential. It was concluded that in solutions which have been examined Sb-electrode behaves like a complex electrode of the "film-pore" type. In the presence of NaOH oxygen compounds of Sb are formed and (E) is displaced toward the negative side.

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Card 1/2

SOROCHAN, R. I., Cand Tech Sci (diss) -- "Electrolysis of sulfide-alkali solutions of antimony". Moscow, 1960. 13 pp (Acad Sci USSR, Inst of Metallurgy im A. A. Baykov), 175 copies (KL, No 10, 1960, 132)

SOROCHAN, R.I.; FRIDMAN, Ya.D.

Effect of current density on the decomposition potential of sulfide-alkali solutions of antimony. Izv.AN Kir SSR.Ser.est.i tekhnauk 2 no.2:121-129 '60. (MIRA 14:10)  
(Antimony) (Electrolysis)

5.26.20

AUTHORS:

Fridman, Ya. D., Sarbayev, Dzh. S.,  
Sorochan, R. I.

69012

S/078/60/005/04/007/040  
B004/B007

TITLE:

Investigation of the Equilibria in Solutions of Complex Compounds  
of Metals. Mixed Halides of Lead and Heterogeneous Cadmium

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 4, pp 791 - 804  
(USSR)

ABSTRACT:

The authors describe a potentiometric method of investigating the equilibrium in solutions of complex compounds containing two different halogens. They mention the following experimental data: Table 1: Electrode potential of Cd-amalgam in chloride-bromide solutions; table 2: the same in bromide-iodide solutions at 25°; table 3: the same in chloride-iodide solutions at 50°; table 4: electrode potential of lead amalgam in chloride-bromide solutions; table 5: the same in bromide-iodide solutions. The potentials were measured by means of a PPTV-1 potentiometer. On the basis of experimental data the equilibrium curves for mixed halogen compounds of cadmium (Figs 1-3) and lead (Figs 5,6) at 25° as well as at 50° (Cd - figure 4, Pb - figure 7) were drawn at a constant ion strength of 5. The authors found that in the solutions of the halogen compounds of Pb and Cd compounds of the type  $MX_{3-j}Y_j^{2-}$  and

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69012

Investigation of the Equilibria in Solutions of Complex  
Compounds of Metals. Mixed Halides of Lead and  
Heterogeneous Cadmium

8/078/60/005/03/007/040  
B004/B007

$MX_{4-j}Y_j^{2-}$  exist (X and Y = Cl and Br, Cl, and J, Br and J). The conditions for the formation of these compounds were determined and their dissociation constants were calculated. On the basis of the results obtained and of published data the authors arrive at the conclusion that the equilibrium constants (Tables 6,7) of the reaction of the consecutive substitution of a coordinate halogen-ion by another, decrease with the number of ions substituted in the coordination sphere. Consequently, complex ions of the type  $MXY_{m-1}^{2-}$  become stabilized in the solutions. These phenomena are also confirmed by the data (Table 8) determined by means of various methods and by various research workers concerning the equilibrium of mixed halogen compounds of Cu (I), Ag, Hg, Cd, Pb, Sb, and Bi. There are 7 figures, 8 tables, and 12 references, 3 of which are Soviet.

ASSOCIATION: Akademiya nauk KirgSSR Laboratoriya tsvetnoy metallurgii (Academy of Sciences of the Kirgizskaya SSR, Laboratory for Nonferrous Metallurgy)

SUBMITTED: November 20, 1958  
Card 2/2

FRIDMAN, Ya.D.; SEREBRYAKOV, V.I.; SOROCHAN, R.I.

Obtaining zinc oxide from low-grade products of complex ore  
dressing. Izv. AN Kir. SSR. Ser. est. i tekhn. nauk 3 no.3:  
135-149 '61. (MIRA 15:3)  
(Zinc--Metallurgy)

FRIDMAN, Ya.D.; SOROKHAN, R.I.; DOLGASHOVA, N.V.

Stability in solutions of mixed thallium and indium halides.  
Zhur.neorg.khim. 7 no.9:2127-2133 S '62. (MIRA 15:9)  
(Thallium halides) (Indium halides)

FRIDMAN, Ya.D.; VERESOVA, R.A.; DOLGASHOVA, N.V.; SOROCHAN, R.I.

Formation of mixed complex compounds of metal oxalates in ethylenediamine  
solutions. Zhur.neorg.khim. 8 no.3:676-684 Mr '63. (MIRA 16:4)

1. Akademiya nauk Kirgizskoy SSR.  
(Oxalates) (Complex compounds) (Ethylenediamine)

SOROCHAN, T.D.

Mechanism of the recovery of cardiac activity in the elimination  
of shock by rhythmic distension of the arterial walls. Zdravo-  
okhranenie 6 no.5:52-57 S-0'63 (MIRA 16:12)

1. Iz kafedry normal'noy fiziologii (zav. - zasluzhennyy de-  
yatel' nauki prof. A.A. Zubkov) Kishinevskogo meditsinskogo  
instituta.

60-29-12/14

AUTHOR: Sorochan, V. A.

TITLE: New Contact Time Recorders (Novyye kontaknyye otmetchiki vremeni)

PERIODICAL: Trudy Geofizicheskogo instituta AN SSSR, 1955, Nr 29, pp. 89-93 (USSR)

ABSTRACT: The article describes mechanical time recorders with contact arrangements used in "ABPM"-type clock mechanisms and marine clocks. In the first instance the contacts are set on the lever escapement of the clock movement and the pallet is grounded with a soft filament; this closes the electric circuit at the guard pins which are insulated from the body of the clock mechanism. The recorder registers at 0.4 sec. intervals when 1 pin is in contact, and at 0.2 sec. when 2 pins are switched on in parallel. The second type of contact device is a drive mechanism with ratchet wheels which are fixed on the axes of the second, minute or hour hands. Such recorders operate at intervals of 3 secs. to 12 hours and

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New Contact Time Recorders (Cont.)

60-29-12/14

make it possible to regulate the closing of a circuit for  
widely differing periods of time. There are 6 figures and 2  
USSR references.

AVAILABLE: Library of Congress

Card 2/2

SOROCHAN, Ye.A., inzhener; SUKHACHEV, I.A., inzhener.

Precast concrete foundations for apartment buildings. *Zbor.*  
mat. o nov. tekhn. v stroi. 16 no.10:1-6 '54. (MIRA 8:2)  
(Foundations)(Precast concrete construction)

MOLYAVKO, G.I.; BARANOVA, N.M.; DIDKOVSKIY, V.Ya.; SOROCHAN, Ye.A.

Miocene bentonites in the Volyn-Podolian region. Bent. gliny Ukr.  
no.1:5-14 '55. (MIRA 12:12)

1. Institut geologicheskikh nauk AN USSR.  
(Volyn-Podolian Upland--Bentonite)

KUREK, N.M., kandidat tekhnicheskikh nauk; SOKOLOV, N.M., kandidat tekhnicheskikh nauk; KOPCHUGOV, V.A., kandidat tekhnicheskikh nauk; ZAMORIN, P.K., kandidat tekhnicheskikh nauk; SOROCHAN, Ye.A., inzhener; GAROVNIKOV, V.I., inzhener, nauchnyy redaktor; BEGAK, B.A., redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskiy redaktor

[Use of precast foundations in building construction] Primenenie sbornykh fundamentov v stroitel'stve zdanii. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 77 p. (MIRA 10:1)  
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prefabricated foundations in civil construction." *with graphs* Mos, 1957. 18 pp 20 cm.  
(Acad of Construction and Architecture USSR. Sci Res Inst of Bases and Subterranean  
Structures), 100 copies. (KL, 13-57, 99)

SOROCHAN, Ye.A., inzh.

Discontinuous precast footings. Nov.tekh. i pered.op. v stroi.  
19 no.6:14-16 Je '57. (MIRA 10:10)  
(Foundations)

SOROCHAN, Yelena Andreyevna [Sorochan, O.A.]; MOLYAVKO, G.I. [Moliavko, H.I.], kand.geologo-mineral.nauk, otv.red.; MEL'NIK, G.F. [Mel'nik, H.F.], red.izd-va; SKLYAROVA, V.Ye. [Sklyarova, V.I.], tekhn.red.

[Middle Miocene stratigraphy of the Volyn'-Podolian slope of the Ukrainian crystalline shield based on pelecypods] Stratygrafiia seredn'omiotsenovych vidkladiiv Volyno-Podil's'koho skhylu Ukrains'koho krystallichnoho shchytu za faunoiu peletsypod. (MIRA 13:1) Kyiv, Vyd-vo Akad.nauk URSR, 1958. 31 p. (Volyn'-Podolian Upland--Geology, Stratigraphic) (Volyn'-Podolian Upland--Lamellibranchiata, Fossil)

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Prinimali uchastiye: SKREBRYANYY, R.V.; POL'SHIN, D.Ye.,  
kand.tekhn.nauk. MUNITS, A.P., red.izd-va; BOROVNEV, N.K.,  
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[Instructions for using precast footings] *Ukazaniia po*  
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SSSR (for Sorochan, Sokolov).  
(Foundations) (Precast concrete construction)

SOROCHAN, Ye., kand. tekhn. nauk

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KRUTOV, V.I.; SOROCHAN, Ye.A.

Designing and constructing large-panel buildings on sagging  
loess soils. Osn., fund. i mekh.grun. no.6:3-5 '59.  
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Problems in using raft foundations. [Trudy] NIIOSP 30.40:28-45  
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Using vibrators in compacting soil. Mekh.stroi. 17 no.2:8-11 F  
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Cand Geol-Min Sci - (diss) "Stratigraphy of Central Myocenic deposits of the Volyno-Podol'skaya Platform and fauna of peli-cyprids." Kiev, 1961. 22 pp, 1 page of tables; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Kiev Order of Lenin State Univ imeni T. G. Shevchenko); 180 copies; free; (KL, 10-61 sup, 209)

SOROCHAN, Ye. A.

Strains in structure built on swelling clay soils. Osn., fund. i  
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ABELEV, Yu.M.; BRAYT, P.I.; KRUTOV, V.I.; SOROCHAN, Ye.A.

Deformations of a large-panel apartment house on sagging soil  
with artificial wetting of the footing. Osn., fund.i mekh.grun.  
3 no.6:12-15 '61. (MIRA 15:4)  
(Apartment houses) (Foundations)

SOROCHAN, Ye.A.

Instructions for using SN 58-59 precast continuous footings. Osn.,  
fund.i mekh.grun. 3 no.26 '61. (MIRA 14:5)  
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SOROCHAN, Ye.A.

Swelling Khvalynian clays as foundations for structures. [Trudy]  
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Testing a series 1-480-P large-panel apartment house erected on  
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(Zaporozh'ye--Apartment houses--Testing)

SOROCHAN, Ye.A.; BUROV, E.S.

Preparation of the bed in construction of structures on swelling  
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(Soil mechanics) (Foundations)

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Conference on problems of building on settling soil.  
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Vladimir Ivanovich, kand. tekhn. nauk; SOKOLOV,  
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(MIA 1812)

TSYMBAL, S.M.; ZEIMSKAYA, V.A. (Zelins'ka, V.O.), SOPCHAN, Ye.A.  
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New find of fauna in the sandy sediments of the Poltavskaya  
series. Geol. zhur. 25 no.3:115-117 '65. (MIRA 18.11)

1. Institut geologicheskikh nauk AN UkrSSR.

MARTSYNOVSKIY, L.; SOROCHAN, Yu.

State standard for coupling dimensions of saddle tractors and  
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SOROCHAN, Yu.P.

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SOROCHAN, Yu.P.; MARTSYNOVSKIY, L.Ya.

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SOROCHAN, Yu, P.

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no. 7:32-35 J1 '60. (MIRA 13:?)  
(Tractors--Equipment and supplies)

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42 Jl '60. (MIRA 13:7)

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New agricultural trailers. Mashinostroenie no.3:99-100 My-Je '62.  
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Wheeled and track-laying combination vehicles for difficult terrain.  
Razved.i okh.nedr 28 no.3:54-59 Mr '62. (MIRA 15:4)

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Tractor trains with great tractional capability. Trakt.i sel'.  
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Piggyback transportation in the U.S.A. Zhel.dor.transp.  
44, no.5:88-91 Mv '62. (MIRA 15:5)  
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(Freight and freightage)

GOR'YACHEN, Yu.P., inzh.; KARTSYLOVSKIY, L.Ya., inzh.; LAKHNOV, A.I.,  
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[Tractor trains] Avtomobil'nye poezda. Moskva, Mashino-  
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Changing weight parameters of the future makes of Soviet  
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MINGVICH, N.A.; SOROCHEK, P.G.; UVAROVA, Z.S.

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